

Please type a plus sign (+) inside this box →

PTO/SB/08A (10-96)  
Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/026,065	
			Filing Date	12/19/01	
			First Named Inventor	Narayan Srinivasa	
			Group Art Unit	2175	
			Examiner Name	THUY PARDO	
Sheet	1	of	1	Attorney Docket Number	1044-401-01

[illegible][illegible]

Examiner Signature	<i>Theresa Rando</i>	Date Considered	8/19/84
-----------------------	----------------------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

BEST AVAILABLE COPY

Please type a plus sign (+) inside this box → +

PTO/SB/08B (10-96)  
Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO			<b>Compleat if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	10/026,065	
			Filing Date	12/19/01	
			First Named Inventor	Narayan Srinivasa	
			Group Art Unit	2175	
			Examiner Name	THUJ PAKDO	
Sheet	1	of	3	Attorney Docket Number	1044-401-01

PTO  
 10/026065  
 12/19/01

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
1/5	1	Y. YANG, J. G. CARBONELL, R. D. BROWN, T. PIERCE, B. T. ARCHIBALD, AND X. LIU, Learning Approaches for Detecting and Tracking News Events, IEEE Intelligent Systems, pp 32-43, July/Aug, 1999.	✓	✓
1/5	2	J. ALLAN ET AL., Topic Detection and Tracking Pilot Study: Final Report, DARPA Broadcast News Transcription and Understanding Workshop, Morgan Kaufmann, San Francisco, 1998, pp 194-218.	✓	✓
1/5	3	G. BARISH, C. A. KNOBLOCK, Y. S. CHEN, S. MINTON, A. PHILPOT, AND C. SHAHABI, THEATERLOC: A case study in information integration, In IJCAI Workshop on Intelligent Information Integration, Stockholm, Sweden, 1999.	✓	✓
1/5	4	S. SLATTERY AND M. CRAVEN, Combining statistical and relational methods for learning in hypertext domains. In Proc. Of the 8th international conference on Inductive Logic Programming (ILP-98), 1998.	✓	✓
1/5	5	R. GHANI, R. JONES, D. MLADENIC, K. NIGAM, S. SLATTERY, Data Mining on Symbolic Knowledge Extracted from the Web, Proceedings of the KDD-2000 Workshop on Text Mining, pages 29--36, Boston, MA, August, 2000.	✓	✓
1/5	6	E. RILOFF, AND R. JONES, Learning Dictionaries for Information Extraction Using Multi-Level Boot-strapping, In Proc. Of the sixteenth national conference on artificial intelligence, pp 1044-149, The AAAI press/ MIT press, 1999.	✓	✓
1/5	7	J. R. QUINLAN, AND R. M. CAMERON-JONES, FOIL: A midterm report, In Proc. of the 12th European Conference on Machine Learning, 1993.	✓	✓
1/5	8	A. MCCALLUM, K. NIGAM, J. RENNIE, AND K. SEYMORE, Building Domain-Specific Search Engines with Machine Learning Techniques, AAAI-99 Spring Symposium on Intelligent Agents in Cyberspace (1999).	✓	✓
1/5	9	M. GROBELNIK, D. MLADENIC, AND N. MILIC-FRAYLING, Text Mining as Integration of Several Related Research Areas: Report on KDD-2000 Workshop on Text Mining, Sixth ACM International Conference on Knowledge Discovery and Data Mining, August 20-23, 2000, Boston.	✓	✓
1/5	10	ION MUSLEA. Extraction Patterns for Information Extraction Tasks: A Survey. In the AAAI Workshop, pag. 1-6, Orlando, Florida, 1999.	✓	✓
1/5	11	M. CRAVEN, D. DIPASQUO, D. FREITAG, A. MCCALLUM, T. MITCHELL, K. NIGAM, S. SLATTERY, Learning to Extract Symbolic Knowledge from the World Wide Web, Proceedings of the 15th National Conference on Artificial Intelligence (AAAI-98).	✓	✓

Examiner Signature	Date Considered	8/19/07
--------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

BEST AVAILABLE COPY

Please type a plus sign (+) inside this box → +

PTO/SB/08B (10-96)  
Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO			<b>C mplete If Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>			Application Number	10/026/065	
			Filing Date	12/19/01	
			First Named Inventor	Narayan Srinivasa	
			Group Art Unit	2175	
			Examiner Name	HUY PARDO	
Sheet	2	of	3	Attorney Docket Number	1044-401-01

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
AS	12	S. SODERLAND, Learning Text Analysis Rules for Domain Specific Natural Language Processing, Ph. D. Dissertation, Univ. of Massachusetts, Dept. of Computer Science, Technical Report 96-087.	<input type="checkbox"/>
AS	13	D. FREITAG, Information Extraction from HTML: Application of a General Machine learning Approach, In Proceedings of the 15th National Conference on Artificial Intelligence, pages 517--523, 1998.	<input checked="" type="checkbox"/>
AS	14	DOORENBOS, R., ETZIONI, O., WELD, D. S., A scalable comparison-shopping agent for the world wide web, in proc. Of the first international conference on autonomous agents, 1997.	<input checked="" type="checkbox"/>
AS	15	PERKOWITZ, M. AND ETZIONI, O., Category Translation: Learning to Understand Information on the Internet. In Proc. 15th International Joint Conference on Artificial Intelligence, 1995.	<input type="checkbox"/>
AS	16	S. SODERLAND, Learning to Extract Text-Based Information from the World Wide Web, In Proceedings Of The Third International Conference Of Knowledge Discovery And Data Mining, KDD-1997.	<input checked="" type="checkbox"/>
AS	17	IBM Intelligent Miner for Text [ <a href="http://www-4.ibm.com/software/data/iminer/fortext/index.html">http://www-4.ibm.com/software/data/iminer/fortext/index.html</a> ]	<input type="checkbox"/>
AS	18	Microsoft Hailstorm [ <a href="http://www.microsoft.com/net/hailstorm.asp">http://www.microsoft.com/net/hailstorm.asp</a> ]	<input type="checkbox"/>
AS	19	N. KUSHMERICK, D. WELD, AND R. DOORENBOS, Wrapper Induction for Information Extraction, In Proc. Of the 15th International Conference on Artificial Intelligence, pp 729-735, 1997.	<input checked="" type="checkbox"/>
AS	20	S. SODERLAND, Learning information extraction rules for semi-structured and free text. Machine Learning, 34, 233-272, 1999.	<input type="checkbox"/>
AS	21	M. CALIFF, AND R. MOONEY, Relational Learning of Pattern-Match Rules for Information Extraction, Working Papers of the ACL-97 Workshop in Natural Language Learning, pp 9-15, 1997.	<input type="checkbox"/>
AS	22	S. SODERLAND, D. FISHER, J. ASELTINE, W. LEHNERT, CRYSTAL Inducing A Conceptual Dictionary, Proc. Of The 14th International Joint Conference on Artificial Intelligence, pp1314-1319, 1995.	<input type="checkbox"/>

Examiner Signature	Date Considered	8/19/04
--------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

BEST AVAILABLE COPY

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO			<b>Compl t if Known</b> <table border="1"> <tr> <td>Application Number</td> <td>10/226,065</td> </tr> <tr> <td>Filing Date</td> <td>12/19/01</td> </tr> <tr> <td>First Named Inventor</td> <td>Narayan Srinivasa</td> </tr> <tr> <td>Group Art Unit</td> <td>2175</td> </tr> <tr> <td>Examiner Name</td> <td>THOMAS PAROD</td> </tr> <tr> <td>Attorney Docket Number</td> <td>1044-401-01</td> </tr> </table>		Application Number	10/226,065	Filing Date	12/19/01	First Named Inventor	Narayan Srinivasa	Group Art Unit	2175	Examiner Name	THOMAS PAROD	Attorney Docket Number	1044-401-01
Application Number	10/226,065															
Filing Date	12/19/01															
First Named Inventor	Narayan Srinivasa															
Group Art Unit	2175															
Examiner Name	THOMAS PAROD															
Attorney Docket Number	1044-401-01															
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)																
Sheet	3	of	3													

[illegible]

Examiner Signature	<i>Huey Pardo</i>	Date Considered	8/19/04
-----------------------	-------------------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

BEST AVAILABLE COPY